

Claims:

1. A spindle motor comprising a shaft supported from a base frame and supporting on the outer diameter thereof a stator comprising a plurality of laminations supporting coils which are sequentially energized to cause rotation of a hub supporting one or more discs for rotation in a plane axially over the stator, the hub supporting a magnet and back iron radially adjacent the stator coils, the back iron supporting a flux shield extending substantially of the entire width of the magnet and intervening between the magnet and the base, the flux shield being formed of a magnetic material to capture any stray magnetic flux from the motor magnet.
2. A motor as claimed in claim 1 wherein the shield is comprised of steel.
3. A motor as claimed in claim 1 wherein the shield is comprised of mu metal.
4. A motor as claimed in claim 1 wherein the shield is integrated with the back iron.
5. A motor as claimed in claim 1 wherein the shield is glued to the axial end of the magnet facing the housing.
6. A shield as claimed in claim 1 wherein the shield extends the entire width of the magnet but is limited to extending the axial width of the magnet.
7. A motor as claimed in claim 1 therein the housing defines a well, the magnet and back iron extending axially from a lower surface of the rotor and being axially below the discs so that the stator and magnet and back iron of the motor are all axially located below the hub and the discs supported by the hub.
8. A spindle motor for a disc drive comprising a shaft supported from a base frame and supporting on the outer diameter thereof a stator comprising a plurality of laminations supporting coils which are sequentially energized to cause rotation of a hub supporting one or more discs for rotation in a plane axially over the stator, the hub supporting a magnet and back iron radially adjacent the stator coils, and means formed of a magnetic material to capture any stray magnetic flux from the motor magnet.
9. A spindle motor comprising a shaft supported from a base frame and supporting on the outer diameter thereof a stator comprising a plurality of laminations supporting

coils which are sequentially energized to cause rotation of a hub supporting one or more discs for rotation in a plane axially over the stator, the hub supporting a magnet adjacent the stator and back iron radially adjacent the stator coils and rotating over the base, the back iron supporting a flux shield extending substantially of the entire width of the magnet and intervening between the magnet and the base and rotating with the magnet, the flux shield being formed of a magnetic material to capture any stray magnetic flux from the motor magnet.

10. A motor as claimed in claim 9 wherein the shield is comprised of steel.
11. A motor as claimed in claim 9 wherein the shield is comprised of mu metal.
12. A motor as claimed in claim 9 wherein the shield is integrated with the back iron.
13. A motor as claimed in claim 9 wherein the shield is glued to the axial end of the magnet facing the housing.
14. A shield as claimed in claim 12 wherein the shield extends the entire width of the magnet but is limited to extending the axial width of the magnet.
15. A motor as claimed in claim 14 wherein the shield is comprised of steel.

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